

## **Development and Implementation of a Course on Nuclear Power Plant Safety at Tuskegee University**

### **Executive Summary**

The proposed work includes the development and implementation of a course on *Nuclear Power Plant Safety* with an aim of increasing the number of African Americans trained in this area. The principal investigator has already developed three courses in the nuclear engineering area with funding support from the Department of Energy (DOE). The proposed course will be structured such that it becomes complementary to these three courses. The proposed course will be offered as a three-credit-hour, technical elective course to juniors and seniors in engineering. Our ultimate objective is to have a comprehensive curricular development and implementation of a minor concentration of study in nuclear engineering within the existing Mechanical Engineering program.

The first semester of activity will be concentrated on course development by the principal investigator of this project. He will offer the course to students in the second semester each year. Twelve students are expected to take this course the first time it is offered.

Students graduating with knowledge of nuclear power plant safety will be able to secure jobs with the U.S. NRC, DOE laboratories, and local, state, and federal regulatory agencies. The broader impact resulting from the proposed activities include production of many African American graduates with knowledge in the nuclear power plant safety area over the next ten years. Such graduates should become role models for many young minority science and engineering students in years to come.